

# Buying Energy Efficient Products with Low Standby Power

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### **Outline**

- Energy efficient purchasing policies
- Basic approach to implementing the Executive Order on low standby power
- Status of Executive Order
- Future steps



# Federal Purchasing Policies

- "Agencies shall select, where life-cycle costeffective, ENERGY STAR® and other ...products in the upper 25 percent of energy efficiency as designated by FEMP."
   Executive Order 13123 (1999) and FAR Chapter 23 (2001)
- "Each agency ...shall purchase products that use no more than one watt in their standby power consuming mode [or] ...products with the lowest standby power wattage ..."

  Executive Order 13221 (2001)

# **Energy Star™ and DOE/FEMP Efficiency Recommendations**

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- Non-residential lighting
- Electric motors and transformers
- Non-residential heating and cooling equipment
- Office equipment
- Residential HVAC, appliances, lighting
- Water-saving devices
- Roofing and windows
- Commercial food service [in preparation]
- Low standby power products New

www.eren.doe.gov/femp/procurement



# Basic Approach Executive Order 13221

- Work with industry to create product list
  - Build on and reinforce Energy Star
  - Encourage voluntary data reporting
  - Minimize data requirements
  - Build product list from industry-certified data

- Disseminate information on standby power to educate Federal purchasers
  - Work with Defense Logistics Agency, General Services Administration, and others



# **Progress to Date**

- Public/Industry Involvement
  - Public meeting held October 24, 2001
  - Ongoing meetings with major associations and interested manufacturers
- Interagency Coordination
  - DOE, EPA, GSA, DLA, and OMB

- Technical Issues
  - Define standby power
  - Provide standby power test guidelines



# Progress to Date (con't)

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#### Product list

- Developed database based on manufacturer/vendor submissions
- Defined and included sub-categories to address different types of products within a category
  - e.g, digital vs. analog TVs
- Published list of products with minimal standby power in Federal Register December 31, 2001
- Update product list and types as needed

#### Education

Materials and web site: fact sheets, q's and a's,
 www.eren.doe.gov/femp/procurement



### Products with Standby Power

#### 1<sup>st</sup> Tier

- Computers & Office Equipment
- Phone Equipment (powered, cell, cordless)
- TV, VCR, DVD, Audio
- Major Appliances
  - Room AC
  - Clothes washer, Dishwasher
  - Microwave
- Other
  - Ceiling fans w/remote
  - Portable power tools
  - Desktop halogen lamp
  - Exercise equipment



# 2<sup>nd</sup> and 3<sup>rd</sup> Tier Categories

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#### Computer and Office

 Computer speakers, modem, hub, PDA holder/charger, multifunction device, uninterruptible power supply

#### Video

 Digital video recorder, settop boxes

#### • Audio

Component system, CD player, portable audio

#### Communications

 Telephone headset, answering machine, walkie talkie

#### Appliances

 Range, stove, coffee maker with clock, clothes dryer

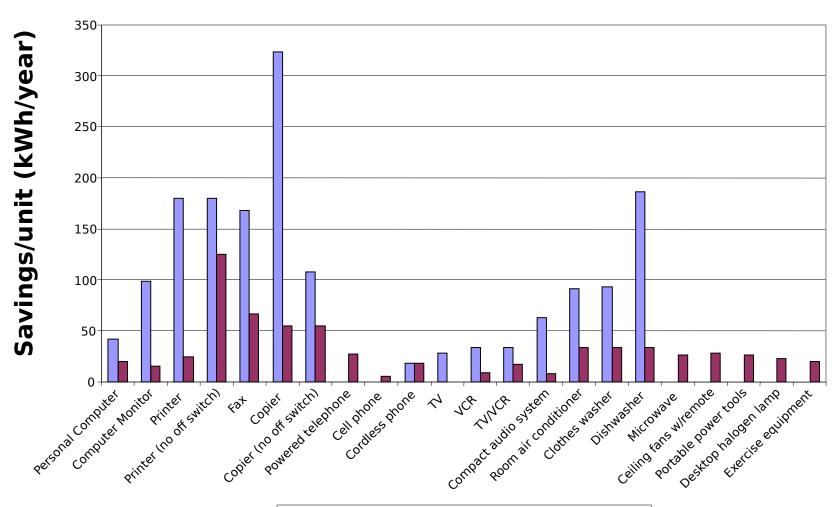
#### Other

 Portable vacuum, general purpose battery charger, security system, exterior lighting



# Typical Energy Savings: Low Power Standby

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■ Energy Star Savings (kWh Additional Standby Savings (kWh)

# **Next Steps**

- 1) Compile and analyze data for first tier products
- 2) Designate "low standby levels" for product categories where sufficient data is available (e.g., TV, VCR, TV/VCR)
- 3) Define "low standby" as 1 watt as sufficient models become available
- 4) Coordinate with ENERGY STAR where possible and appropriate
- 5) Publish manufacturer-certified data for specific models
- 6) Work with office products manufacturers and ITI to collect data by July 2002
  - Recommend standby levels for first tier products (e.g., computers, printers, monitors, fax machines, copiers)
  - Resolve technical issues (e.g., sub-categories, test guideline)





## **Next Steps (con't)**

 Develop schedule with appliance manufacturers (AHAM) to determine how test procedures can be modified to include standby power

- Determine schedule for adding 2<sup>nd</sup> and 3<sup>rd</sup> tier products
- Work with GSA, DLA, wholesalers and retailers to highlight standby power data to Federal consumers
- Organize press event for anniversary of E.O. (July 31)